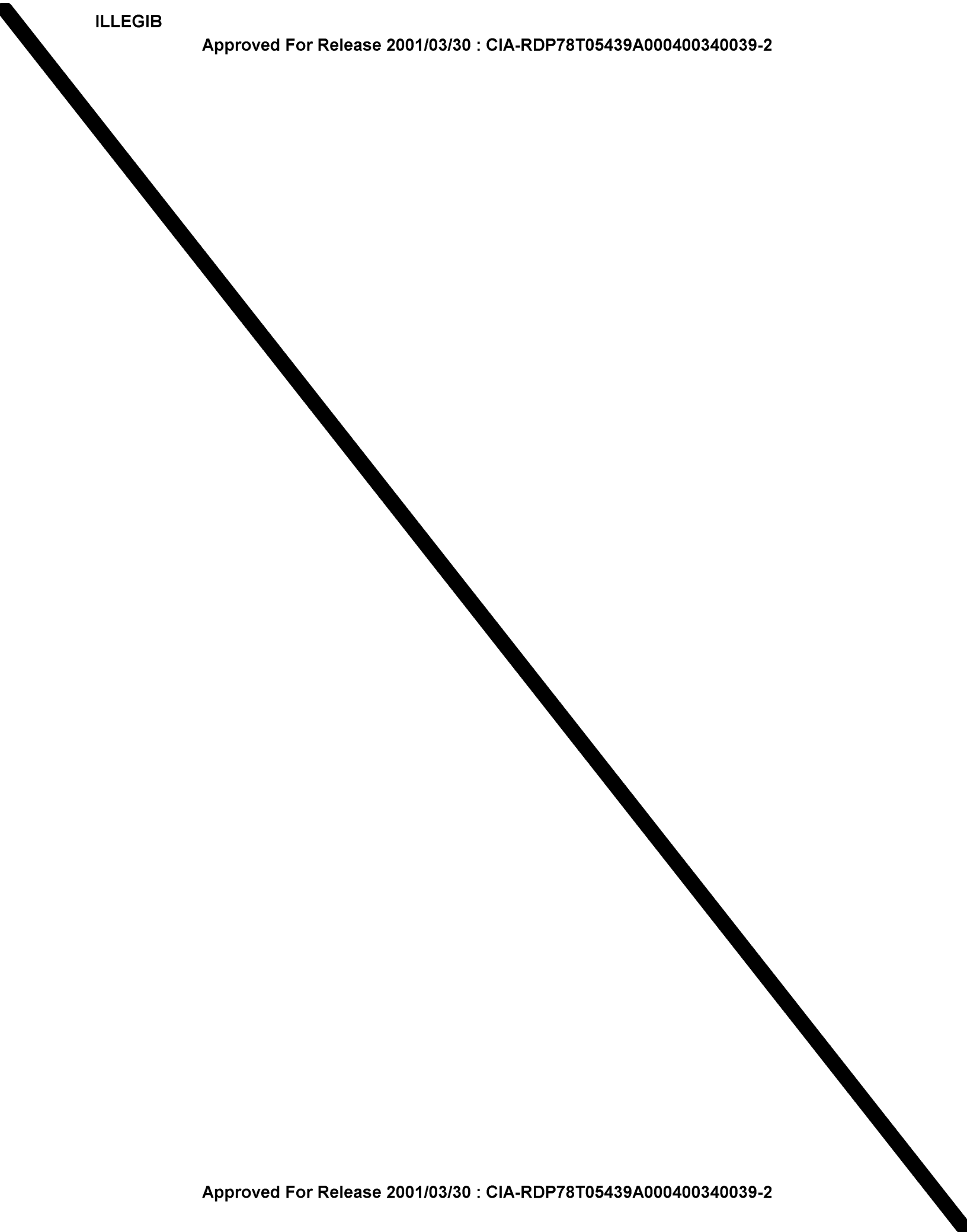

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TCS-80102/65
January 1965

PHOTOGRAPHIC INTERPRETATION REPORT

PROBABLE SOLID PROPELLANTS TEST FACILITY AND ASSOCIATED PRODUCTION FACILITIES NEAR PERM, USSR

CIA DIA

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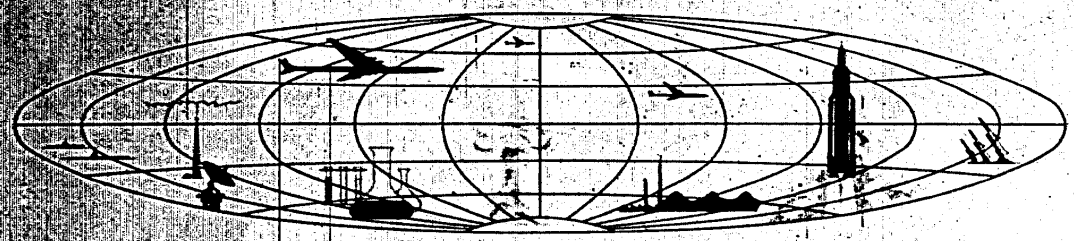

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PROBABLE SOLID PROPELLANTS TEST FACILITY AND ASSOCIATED PRODUCTION FACILITIES NEAR PERM, USSR

INTRODUCTION

The purpose of this report is to present descriptions of the Perm Probable Solid Propellants Test Facility and various associated production facilities including suspect solid propellants manufacturing areas, an explosives manufacturing plant, and an area of unidentified new construction.

The Perm Probable Solid Propellants Test Facility is located at 57-58N 55-52E, approximately 9 nautical miles (nm) west-southwest of the railroad bridge which crosses the Kama River in the city of Perm, USSR (Figure 1). This test facility is adjacent to the Perm Munitions and Chemical Combine K. Kirov No 98 [redacted] on the north bank of the Kama River (Figure 2).

25X1A

PROBABLE SOLID PROPELLANTS TEST FACILITY

The Perm Probable Solid Propellants Test Facility (Figures 3 and 4) occupies a walled area measuring approximately 4,500 by 1,700 feet and is rail served. It consists of the following structures: one test cell (item 1, Figure 4) and its associated blast deflector; an irregularly shaped building with 4 sections (item 5) which is a modified H-shaped building and probably serves the same purpose as the H-shaped buildings at Biysk, Krasnoyarsk, and Sterlitamak; a high-bay building (item 6), and three other major buildings (items 2, 3, and 4). A perspective drawing of the facility is shown on Figure 5.

The earliest photography of the test facility was obtained in [redacted] when

25X1D

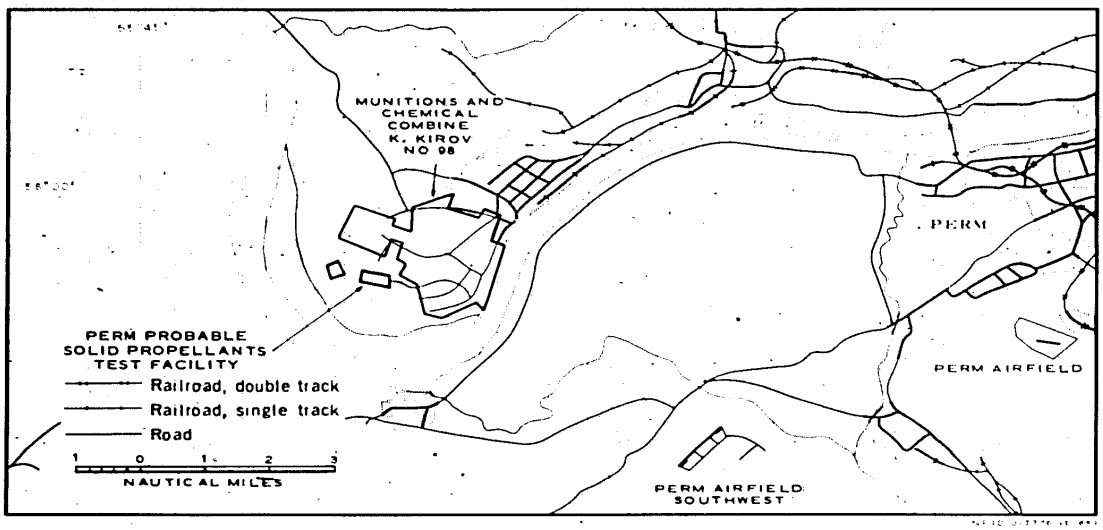

FIGURE 1. LOCATION MAP.

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the facility was under construction, at which time only the blast deflector and the dim outlines of the rest of the facility were visible. The test cell and 5 of the support buildings were complete in [redacted] when it was seen clearly for the first time. Photography of [redacted] revealed more details of the test facility, but it was not until [redacted] that the high-bay building (item 6) appeared and the associated buildings could be seen in detail. In [redacted] the major buildings appeared to be complete, but the operational status of the test facility was

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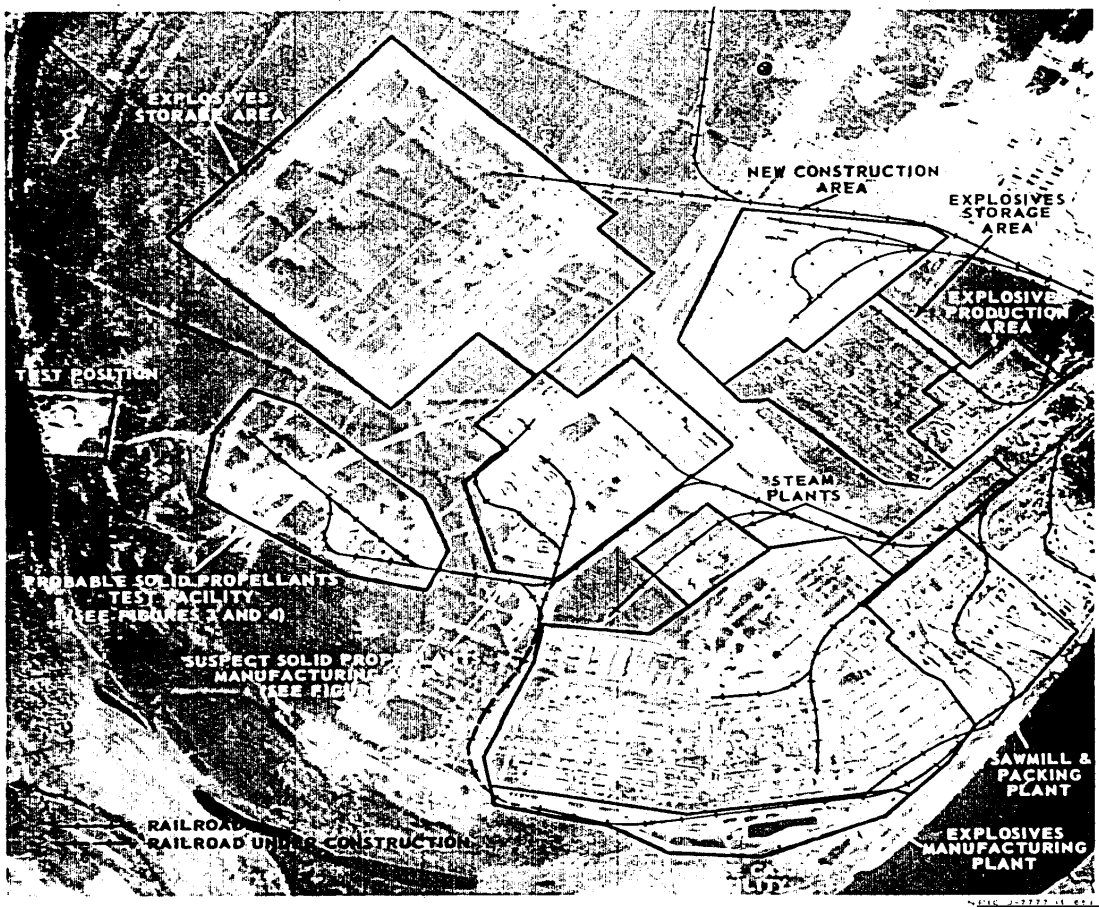


FIGURE 2. PROBABLE SOLID PROPELLANTS TEST FACILITY AND ASSOCIATED FACILITIES NEAR PERM, USSR. [redacted]

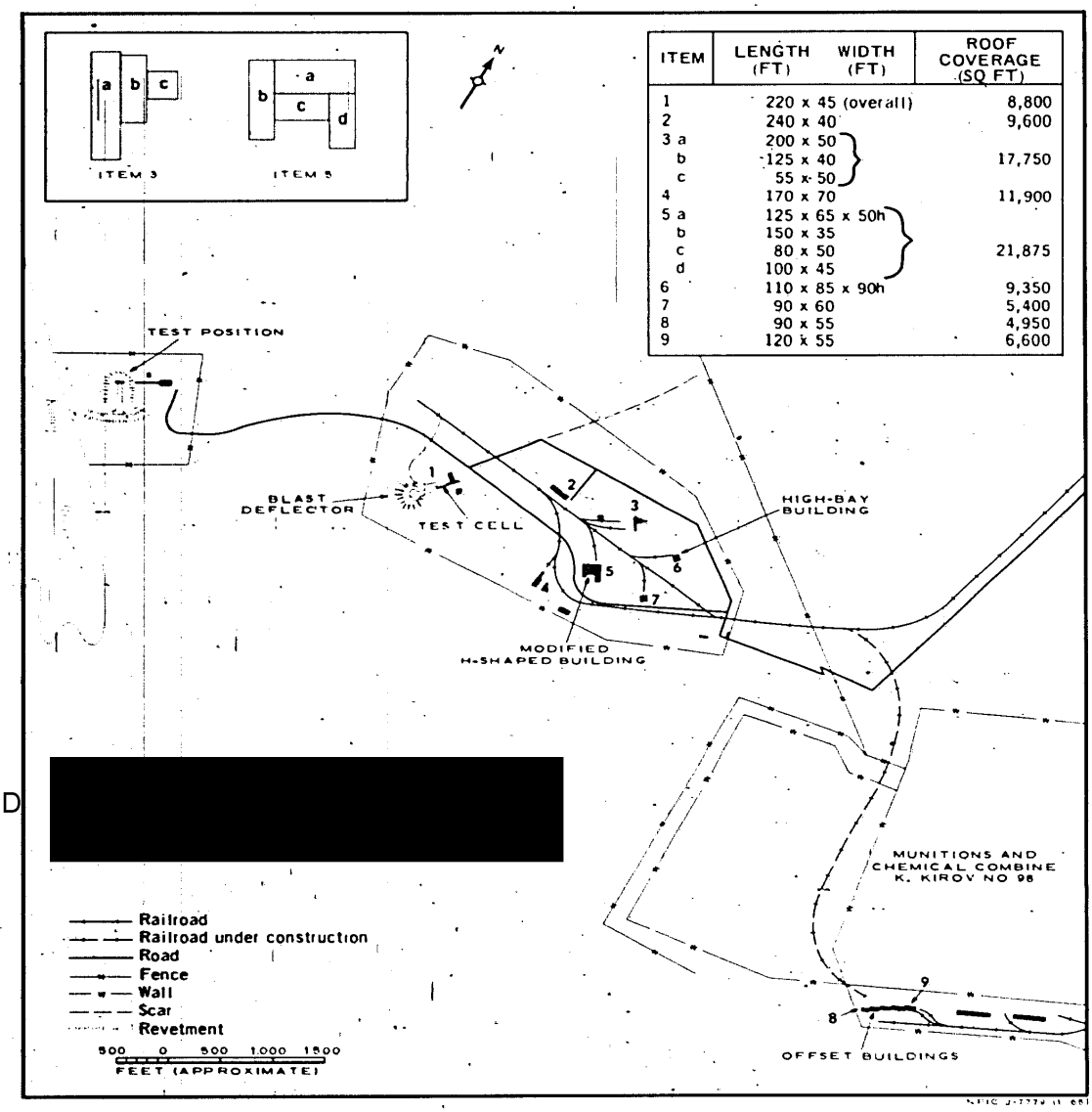
[redacted]

25X1D

25X1D

FIGURE 3. THE PROBABLE SOLID PROPELLANTS TEST FACILITY [redacted]

25X1D



ITEM	LENGTH (FT)	WIDTH (FT)	ROOF COVERAGE (SQ FT)
1	220 x 45 (overall)		8,800
2	240 x 40		9,600
3 a	200 x 50		
b	125 x 40		17,750
c	55 x 50		
4	170 x 70		11,900
5 a	125 x 65 x 50h		
b	150 x 35		
c	80 x 50		21,875
d	100 x 45		
6	110 x 85 x 90h		9,350
7	90 x 60		5,400
8	90 x 55		4,950
9	120 x 55		6,600

25X1D

FIGURE 4. THE PROBABLE SOLID PROPELLANTS TEST FACILITY.

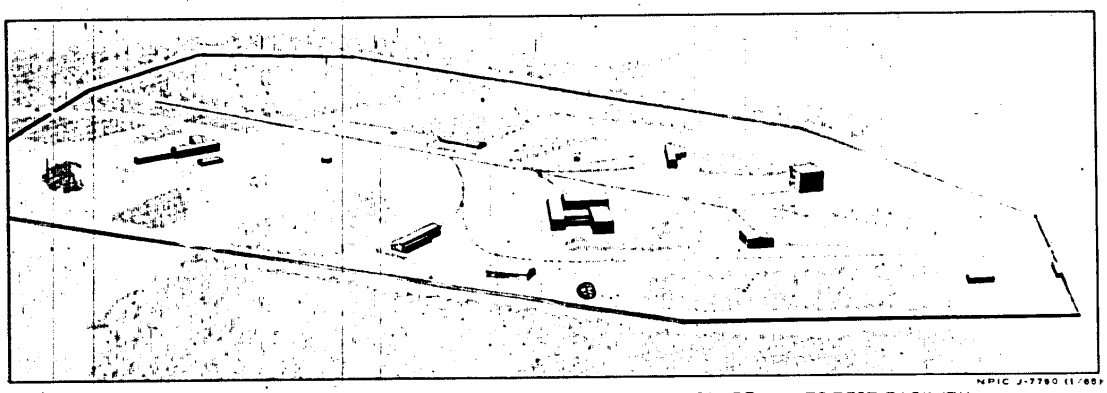


FIGURE 5. PERSPECTIVE DRAWING OF THE PROBABLE SOLID PROPELLANTS TEST FACILITY.

still in doubt because some rail lines appeared to be still under construction. There is no photographic evidence that any test firing has occurred to date.

An area located approximately 1,800 feet west of the test facility, which resembled a burn area until seen clearly on photography of [redacted] 25X1D is now identified as a test position (Figures 2 and 4). This test position is in a fenced enclosure measuring approximately 1,300 by 1,150 feet and consists of two revetments (one U-shaped and one curved) so arranged as to create a central protected area.

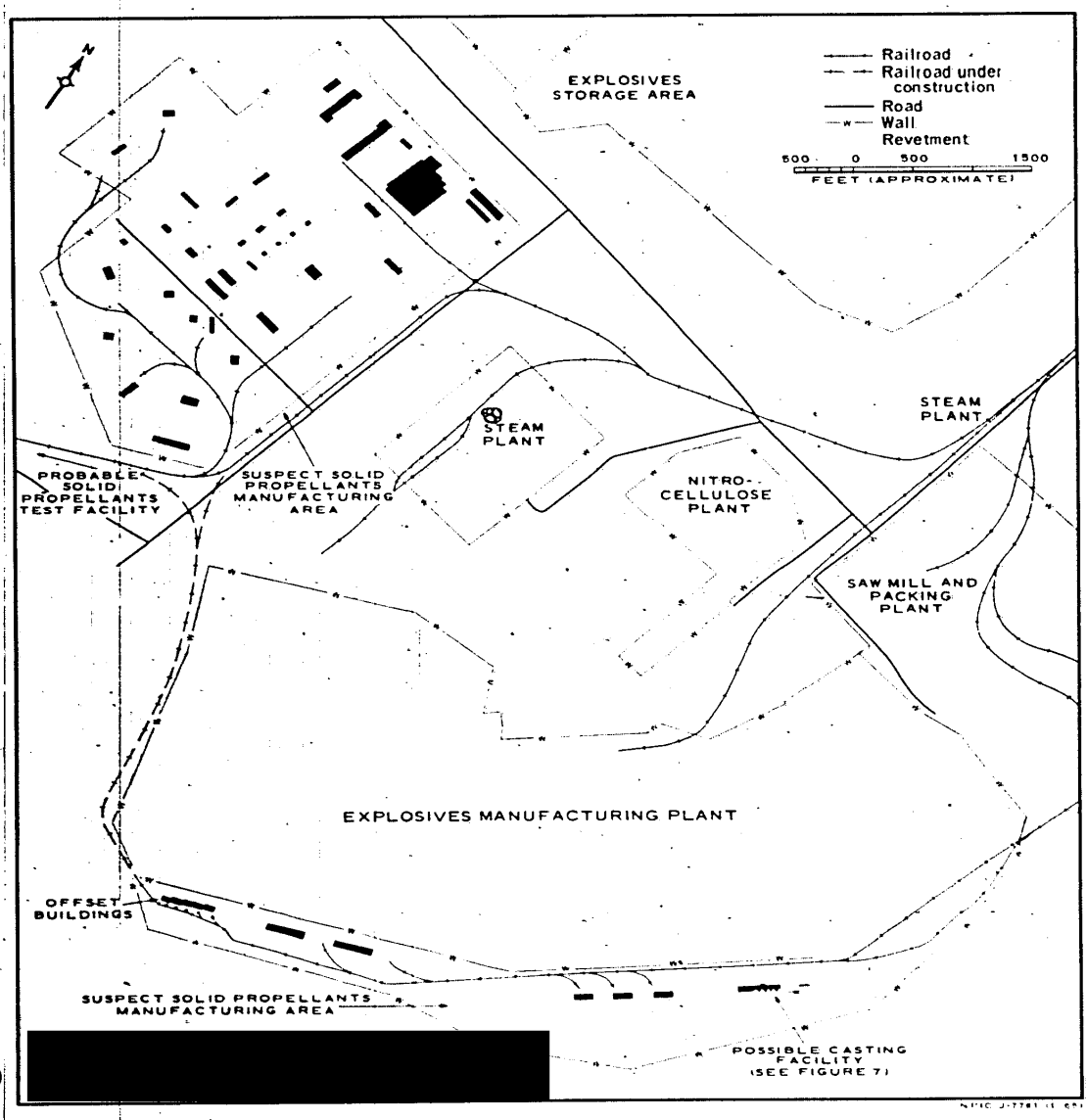
A group of 5 offset buildings (items 8 and 9, Figure 4) is located approximately 4,400 feet southeast of the test facility within a suspect solid propellants manufacturing area (Figure 2). These are probably environmental control buildings. A rail spur under construction connecting the offset buildings with the test facility is seen on photography of [redacted] 25X1D

SUSPECT SOLID PROPELLANTS MANUFACTURING AREAS

Two separate, but probably interrelated, manufacturing areas are located near the Probable Solid Propellants Test Facility (Figures 2 and 6). A definite function cannot presently be assigned to these areas, but their period of development, similarity to typical explosives manufacturing areas, and relationship to other facilities within the complex make them suspect as producers of solid propellants.

The northernmost of the two areas contains 19 revetted structures, one large production building and at least 12 other buildings. The southernmost area consists of 5 rail-served offset buildings, 5 rail-served production buildings, and a large possible casting facility. The casting facility includes 5 cylindrical objects which have diameters varying from approximately 30 to 40 feet. It is shown in a perspective view on Figure 7.

When first observed on poor-quality photography of [redacted] 25X1D some clearing activity and ground scarring were evident in these areas. Better photography of [redacted] 25X1D revealed the presence of approximately 17 buildings in various stages of construction including the 5 offset buildings. In [redacted] 25X1D continued construction was evident including the beginning of the pos-



25X1D

FIGURE 6. THE SUSPECT SOLID PROPELLANTS MANUFACTURING AREAS.

25X1D sible casting facility. By [redacted]
25X1D [redacted] both areas appeared to be in the
25X1D final stages of construction. In [redacted]
25X1D [redacted] the cylindrical objects in the possible casting facility appeared to have been mounded with earth, and smoke was rising from the facility suggesting that it had gone into operation.

Various features of the areas, particularly the possible casting facility, provide indications that the products manufactured are new types of explosives and/or specialized propellants for rocket motors. The two areas are connected with the Probable Solid Propellants Test Facility by road and by rail spurs under construction, and they were developed within the same time period as the test facility.

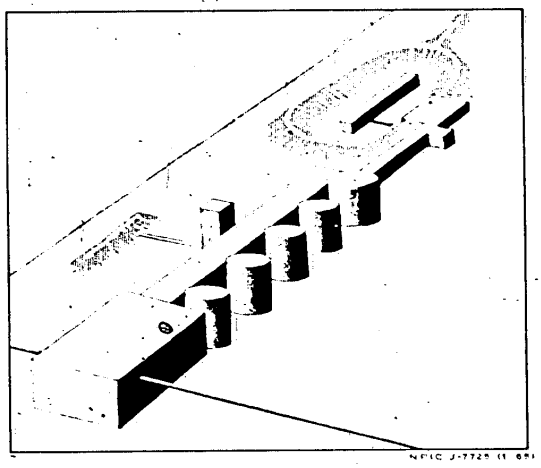


FIGURE 7. PERSPECTIVE DRAWING OF THE POSSIBLE CASTING FACILITY.

EXPLOSIVES MANUFACTURING PLANT

The explosives manufacturing plant is located east of the test facility (Figure 2) and
25X1D was probably in operation in [redacted]
25X1D [redacted] when it was first observed on poor-quality photography. The first good photography, obtained in
25X1D [redacted] revealed that this plant probably had the capability to produce military explosives such as initiators, bursting charges, and propellants. Photography of
25X1D [redacted] revealed the beginning of some construction near the northern edge of the plant. Photography
25X1D of [redacted]
25X1D [redacted] shows no additional areas of construction in this plant.

NEW CONSTRUCTION AREA

Construction activity is evident in an area adjacent to the northernmost Suspect Solid Propellant Manufacturing Area (Figure 2). At present the early stages of construction are such that the eventual function of this area cannot be determined. It appears, however, that the area may be designed to produce a new type of explosive or a specialized propellant rather than to expand the existing explosives manufacturing capabilities.

No evidence of activity was present on photography of [redacted] but 25X1D
about a year later one large and approximately 8 small buildings could be seen in this area
25X1D [redacted]
25X1D [redacted] several more buildings had been added. Good photography of [redacted]
25X1D [redacted] shows that active construction is continuing in this area and that it now contains one revetted building, one large revetted structure under construction, 3 large rail-served rectangular buildings (2 of which are under construction), about 12 major buildings, and several small structures.

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REFERENCES

PHOTOGRAPHY

25X1D

[redacted]

MAPS OR CHARTS

ACIC, US Air Target Chart, Series 200, Sheet 0156-11HL, 1st ed, Jun 63, scale 1:200,000 (SECRET)

RELATED DOCUMENT

CIA, PIR-17 63, *Probable Solid Propellants Testing Facilities and Associated Explosives Plants in the USSR*, Dec 63 (TOP SECRET RUFF)

REQUIREMENT

CIA, C-RR4-61,679

NPIC PROJECT

116834-4 (partial answer)

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